


Modeling Date:	April-2018
Map Creation Date:	September-2018
By:	J. Weber


- Legend**
- Cross Section
  - Flow Path
  - Detailed Sheet Extent
  - Approx. Maximum Flooding Extent

**Notes:**

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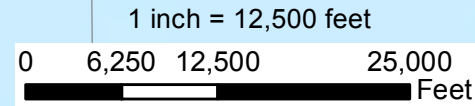
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**SD**

Engineer Elizabeth Bissonnette

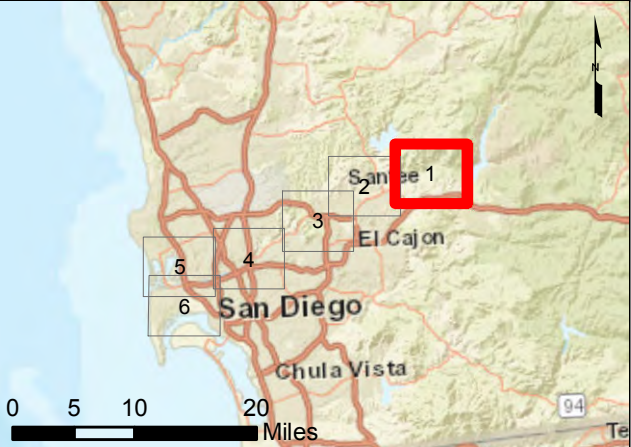
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Name of Facility	Distance from Dam (mi)	Flood Wave Arrival Time (hrs:mins)	Maximum Inundation Depth (ft)	Peak Velocity (ft/sec)
	-	-	-	-

**El Capitan Dam**  
**Sunny Day Dam Breach**  
**Flood Arrival Times**  
San Diego County, California  
State Dam ID: 8.007  
& National Dam ID: CA00111



Modeling Date:	April-2018
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**Legend**

**Critical Structures**

- Critical Road Point
- CalFire Facility
- Licensed Healthcare Facility
- Law Enforcement Facility
- School

..... Critical Road

— Approx. Time to 1 Foot Depth (hrs:mins)

— Cross Section

— Flow Path

— Approx. Maximum Flooding Extent

— Municipal Boundary

**Maximum Inundation Depth (ft)**

<2	* Variations in color are dependent upon the background imagery.
2 to 5	
5 to 10	
10 to 20	
20+	

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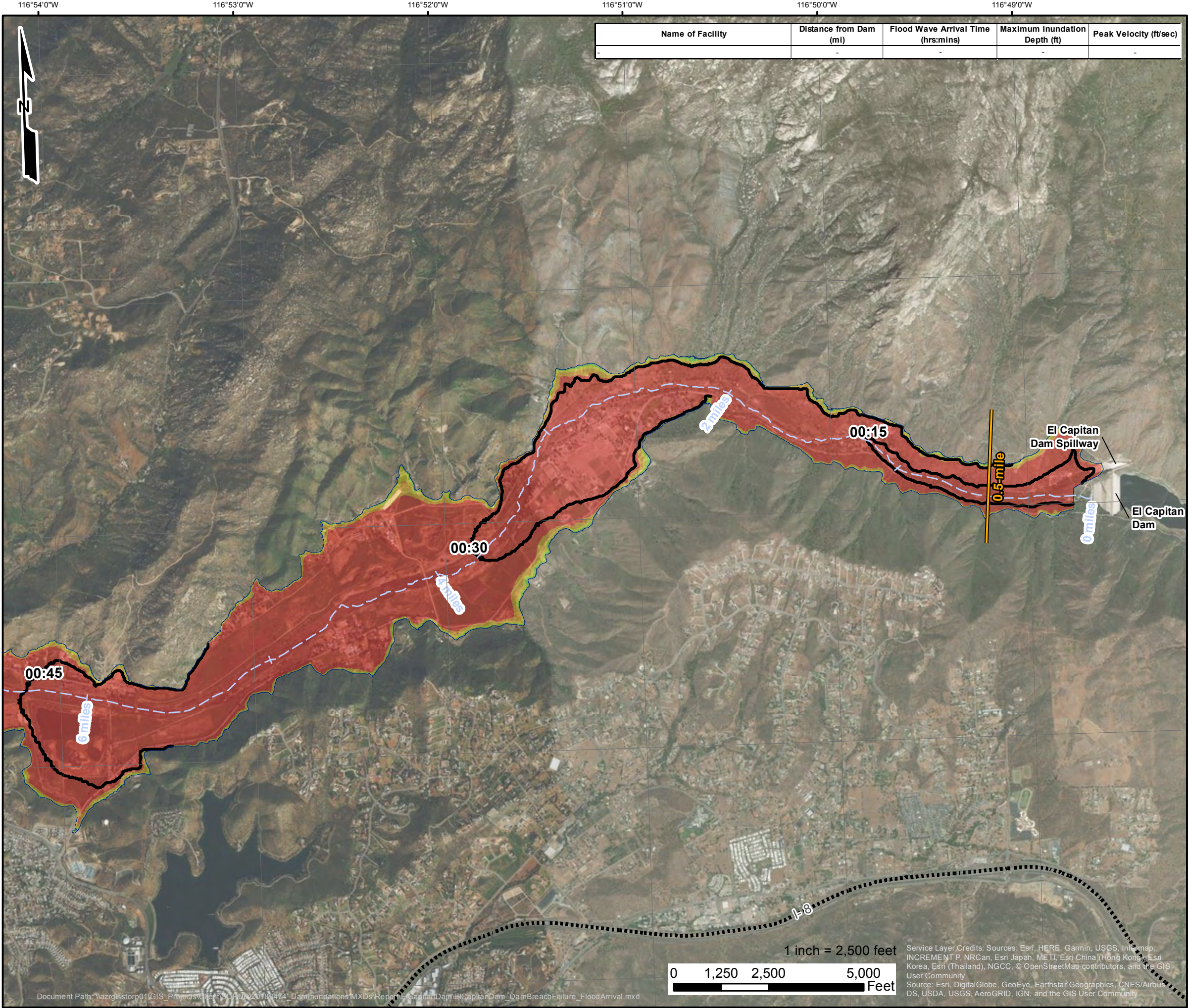
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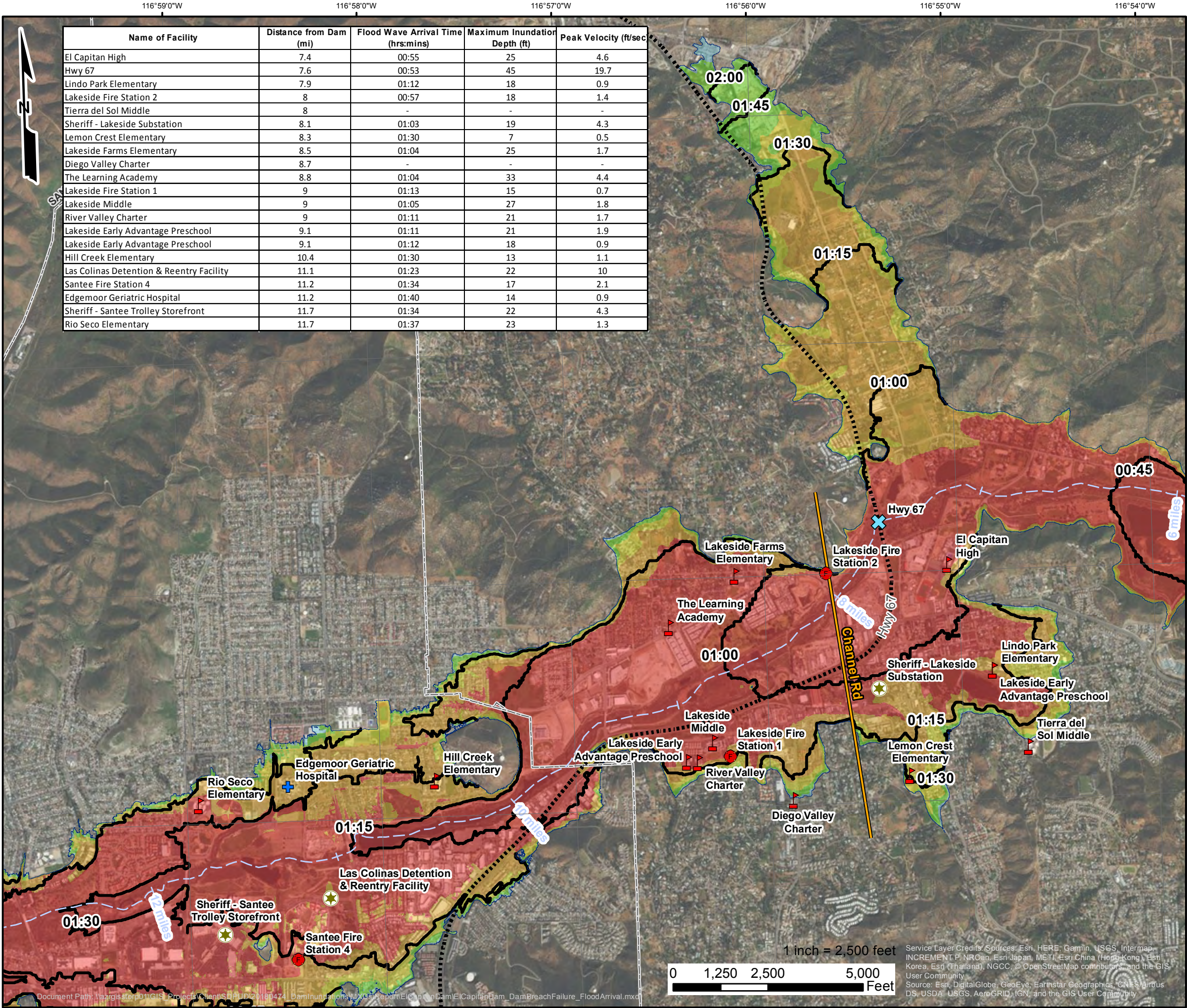


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### El Capitan Dam Sunny Day Dam Breach Flood Arrival Times

San Diego County, California  
State Dam ID: 8.007  
& National Dam ID: CA00111

Modeling Date: April-2018  
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#### Legend

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2 to 5
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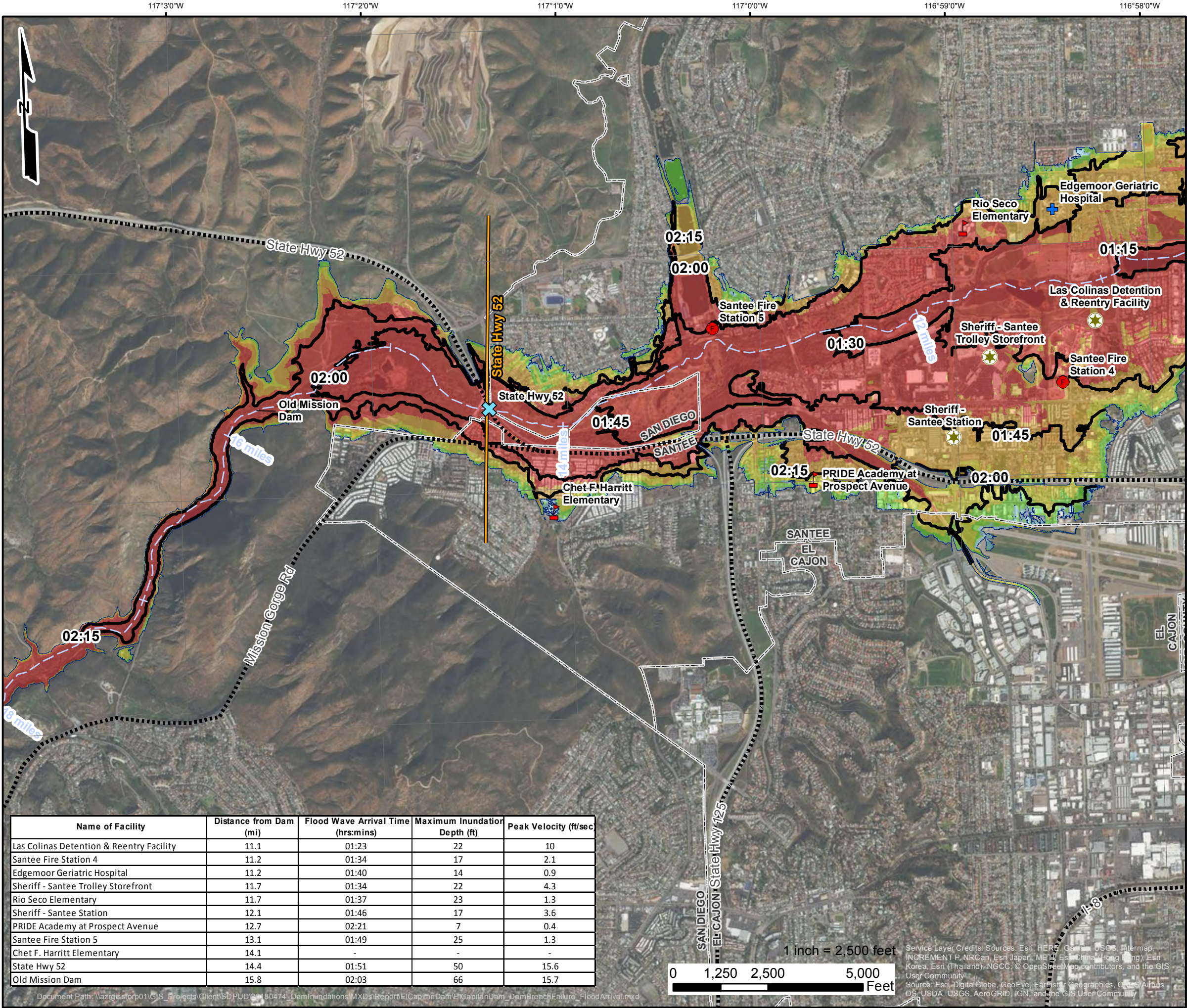
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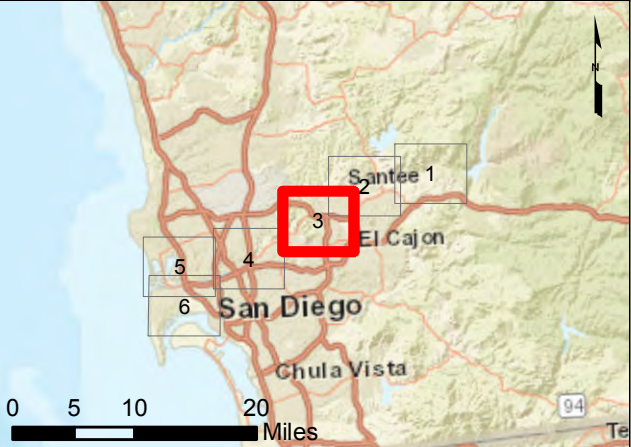




Name of Facility	Distance from Dam (mi)	Flood Wave Arrival Time (hrs:mins)	Maximum Inundation Depth (ft)	Peak Velocity (ft/sec)
Las Colinas Detention & Reentry Facility	11.1	01:23	22	10
Santee Fire Station 4	11.2	01:34	17	2.1
Edgemoor Geriatric Hospital	11.2	01:40	14	0.9
Sheriff - Santee Trolley Storefront	11.7	01:34	22	4.3
Rio Seco Elementary	11.7	01:37	23	1.3
Sheriff - Santee Station	12.1	01:46	17	3.6
PRIDE Academy at Prospect Avenue	12.7	02:21	7	0.4
Santee Fire Station 5	13.1	01:49	25	1.3
Chet F. Harritt Elementary	14.1	-	-	-
State Hwy 52	14.4	01:51	50	15.6
Old Mission Dam	15.8	02:03	66	15.7

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**El Capitan Dam  
Sunny Day Dam Breach  
Flood Arrival Times**  
San Diego County, California  
State Dam ID: 8.007  
& National Dam ID: CA00111



Modeling Date: April-2018  
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**Legend**

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— Approx. Maximum Flooding Extent  
— Municipal Boundary

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Name of Facility	Distance from Dam (mi)	Flood Wave Arrival Time (hrs:mins)	Maximum Inundation Depth (ft)	Peak Velocity (ft/sec)
Cabrillo Freeway	25.7	03:54	42	9.3
San Diego Police - Western Division	27.7	05:19	12	5.4
SD Future West Mission Valley FS	27.8	05:17	11	7.3
San Diego County Psychiatric Hospital	28.2	05:48	12	3.1
Urban Corps of San Diego County Charter	28.2	05:51	13	1.8
Interstate 5	28.3	04:49	26	10.6
CHP - San Diego Area Office	28.3	05:33	6	1.8
Mission Bay High	28.5	-	-	-
Dewey Elementary	28.7	06:22	10	0.5
SD Fire Station 20	29	05:59	13	1.2
San Diego Police - Peninsula Storefront	29	05:52	14	1.5

**El Capitan Dam**  
**Sunny Day Dam Breach**  
**Flood Arrival Times**  
**San Diego County, California**  
**State Dam ID: 8.007**  
**& National Dam ID: CA00111**



Modeling Date: April-2018  
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**Legend**

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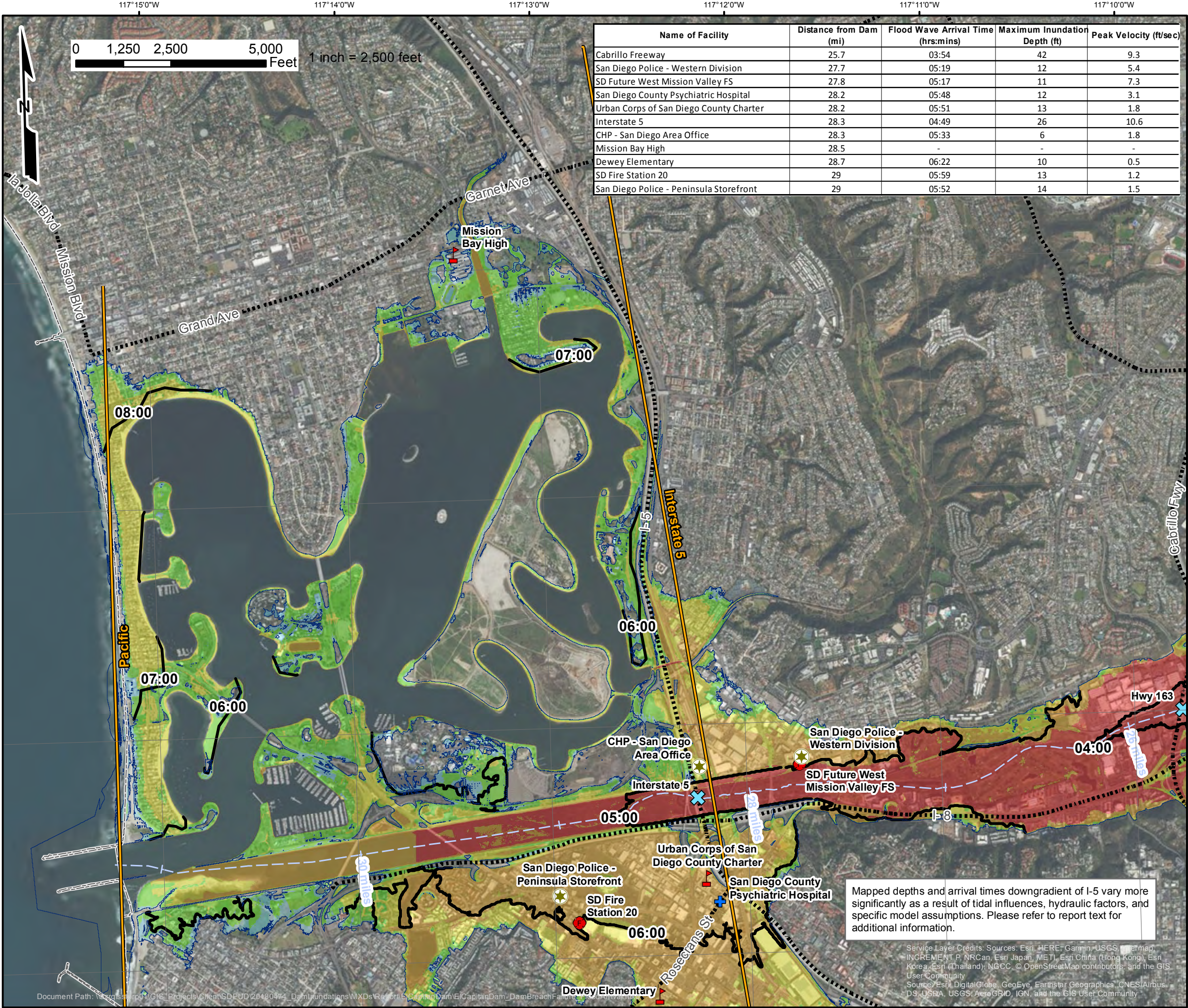
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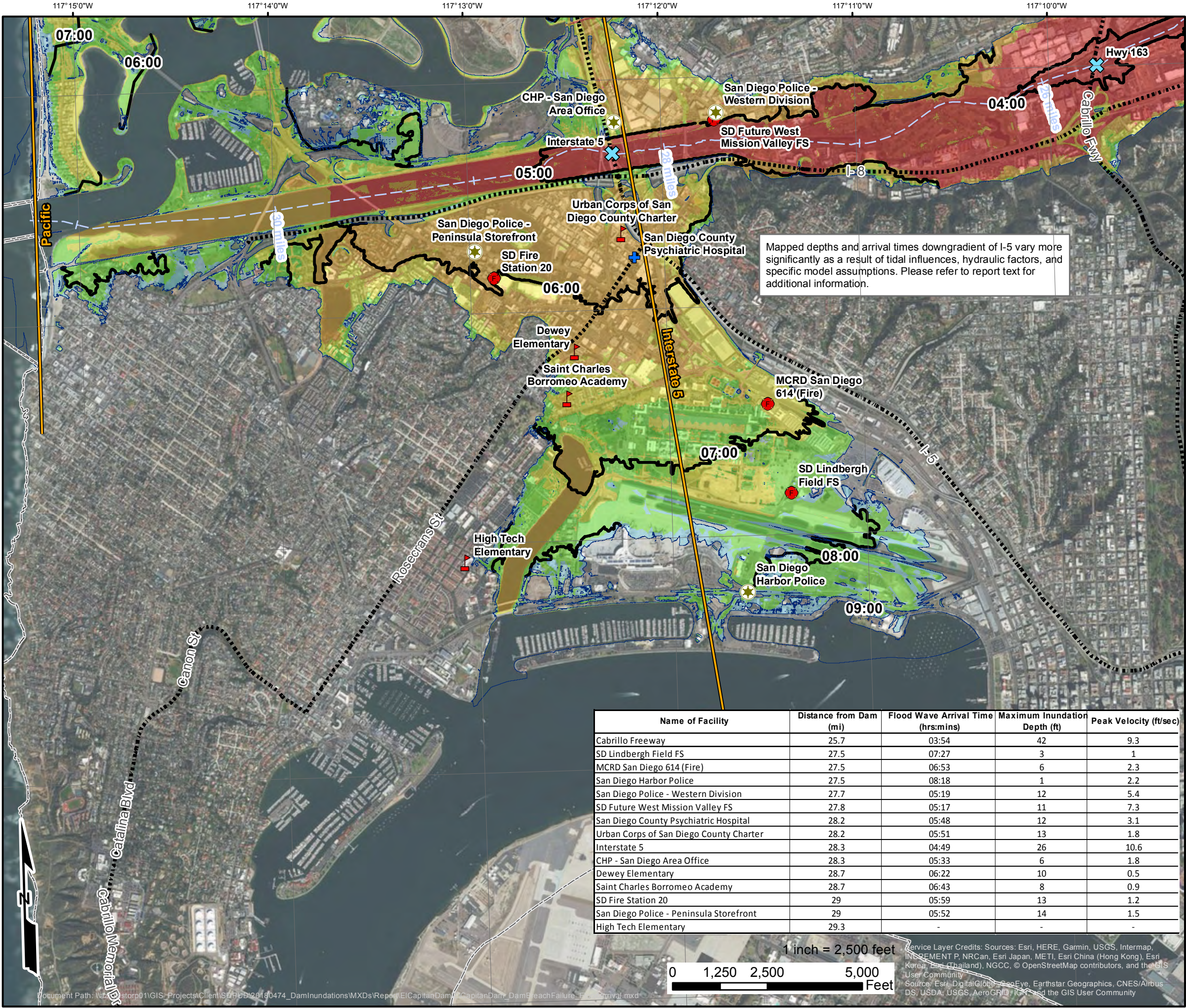
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Mapped depths and arrival times downgradient of I-5 vary more significantly as a result of tidal influences, hydraulic factors, and specific model assumptions. Please refer to report text for additional information.

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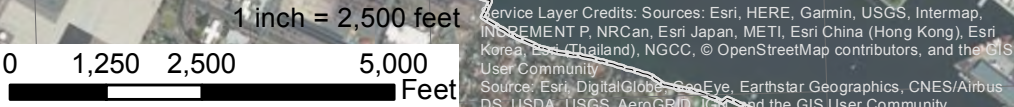
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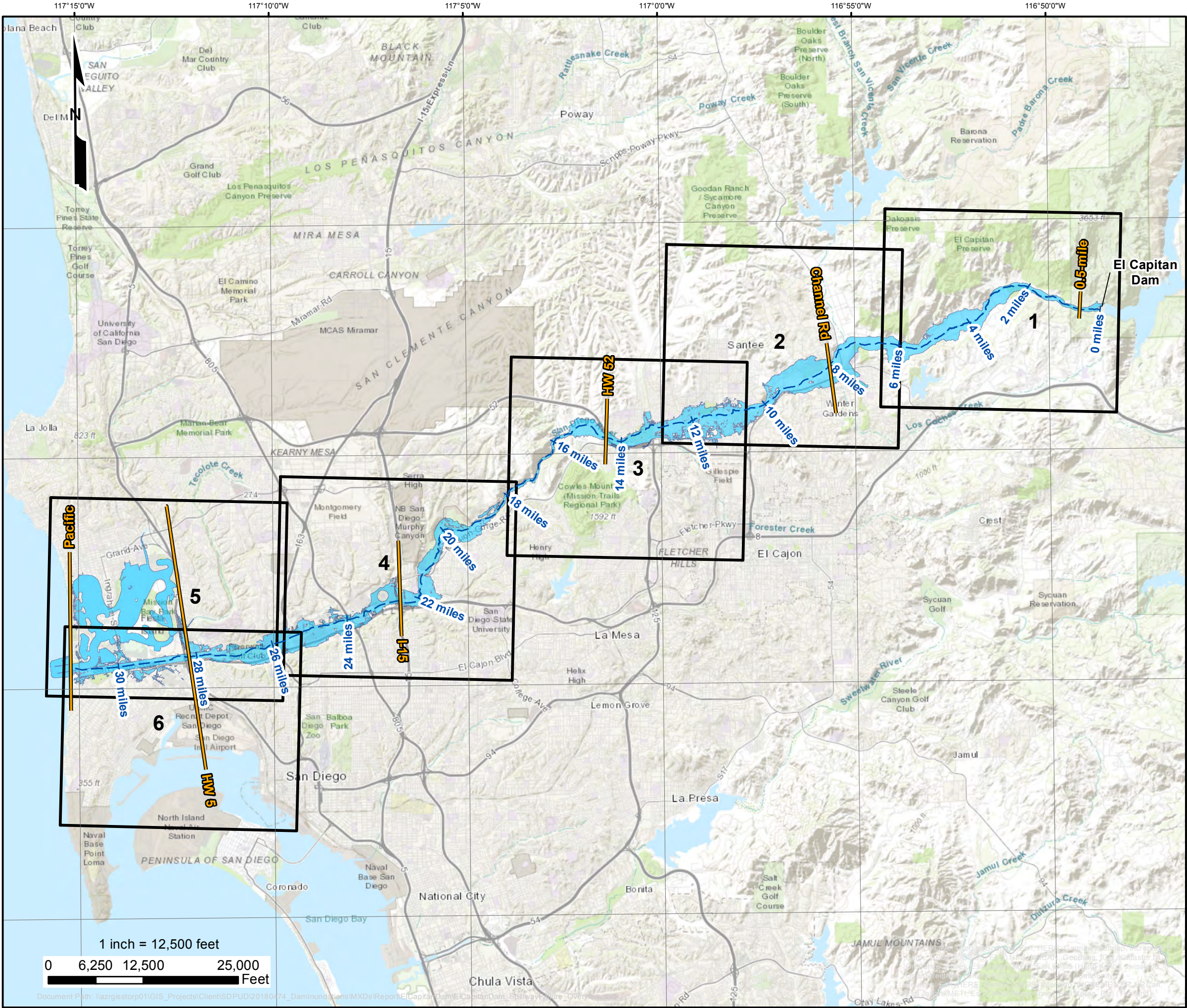
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Cabrillo Freeway	25.7	03:54	42	9.3
SD Lindbergh Field FS	27.5	07:27	3	1
MCRD San Diego 614 (Fire)	27.5	06:53	6	2.3
San Diego Harbor Police	27.5	08:18	1	2.2
San Diego Police - Western Division	27.7	05:19	12	5.4
SD Future West Mission Valley FS	27.8	05:17	11	7.3
San Diego County Psychiatric Hospital	28.2	05:48	12	3.1
Urban Corps of San Diego County Charter	28.2	05:51	13	1.8
Interstate 5	28.3	04:49	26	10.6
CHP - San Diego Area Office	28.3	05:33	6	1.8
Dewey Elementary	28.7	06:22	10	0.5
Saint Charles Borromeo Academy	28.7	06:43	8	0.9
SD Fire Station 20	29	05:59	13	1.2
San Diego Police - Peninsula Storefront	29	05:52	14	1.5
High Tech Elementary	29.3	-	-	-



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### El Capitan Dam Sunny Day Spillway Breach Overview

San Diego County, California  
State Dam ID: 8.007  
& National Dam ID: CA00111

Modeling Date: April-2018  
Map Creation Date: September-2018  
By: J. Weber

**Legend**

- Cross Section
- Flow Path
- Detailed Sheet Extent
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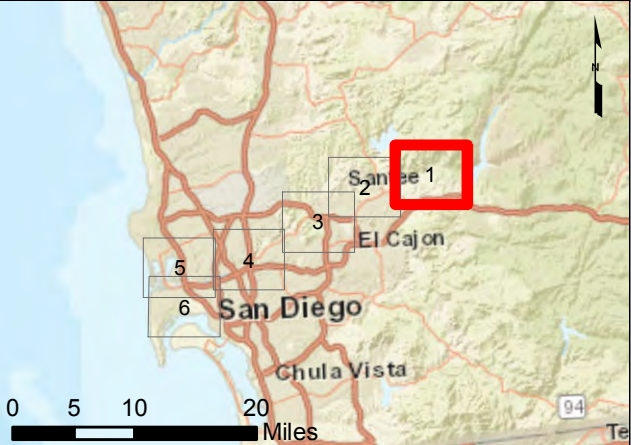
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Name of Facility	Distance from Dam (mi)	Flood Wave Arrival Time (hrs:mins)	Maximum Inundation Depth (ft)	Peak Velocity (ft/sec)
-	-	-	-	-

**El Capitan Dam**  
**Sunny Day Spillway Breach**  
**Flood Arrival Times**  
San Diego County, California  
State Dam ID: 8.007  
& National Dam ID: CA00111



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**Legend**

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**Maximum Inundation Depth (ft)**

1 to 2
2 to 5
5 to 10
10 to 20
20+

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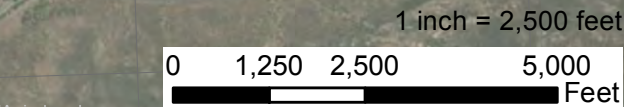
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Name of Facility	Distance from Dam (mi)	Flood Wave Arrival Time (hrs:mins)	Maximum Inundation Depth (ft)	Peak Velocity (ft/sec)
El Capitan High	7.4	-	-	-
Hwy 67	7.6	01:24	13	7.5
Lindo Park Elementary	7.9	-	-	-
Lakeside Fire Station 2	8	-	-	-
Sheriff - Lakeside Substation	8.1	-	-	-
Lakeside Farms Elementary	8.5	02:09	3	0.4
The Learning Academy	8.8	01:49	7	1.9
Lakeside Middle	9	-	-	-
Lakeside Early Advantage Preschool	9.1	-	-	-
Las Colinas Detention & Reentry Facility	11.1	02:34	4	4
Santee Fire Station 4	11.2	-	-	-
Sheriff - Santee Trolley Storefront	11.7	03:26	1	1.1
Rio Seco Elementary	11.7	-	-	-

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State Dam ID: 8.007  
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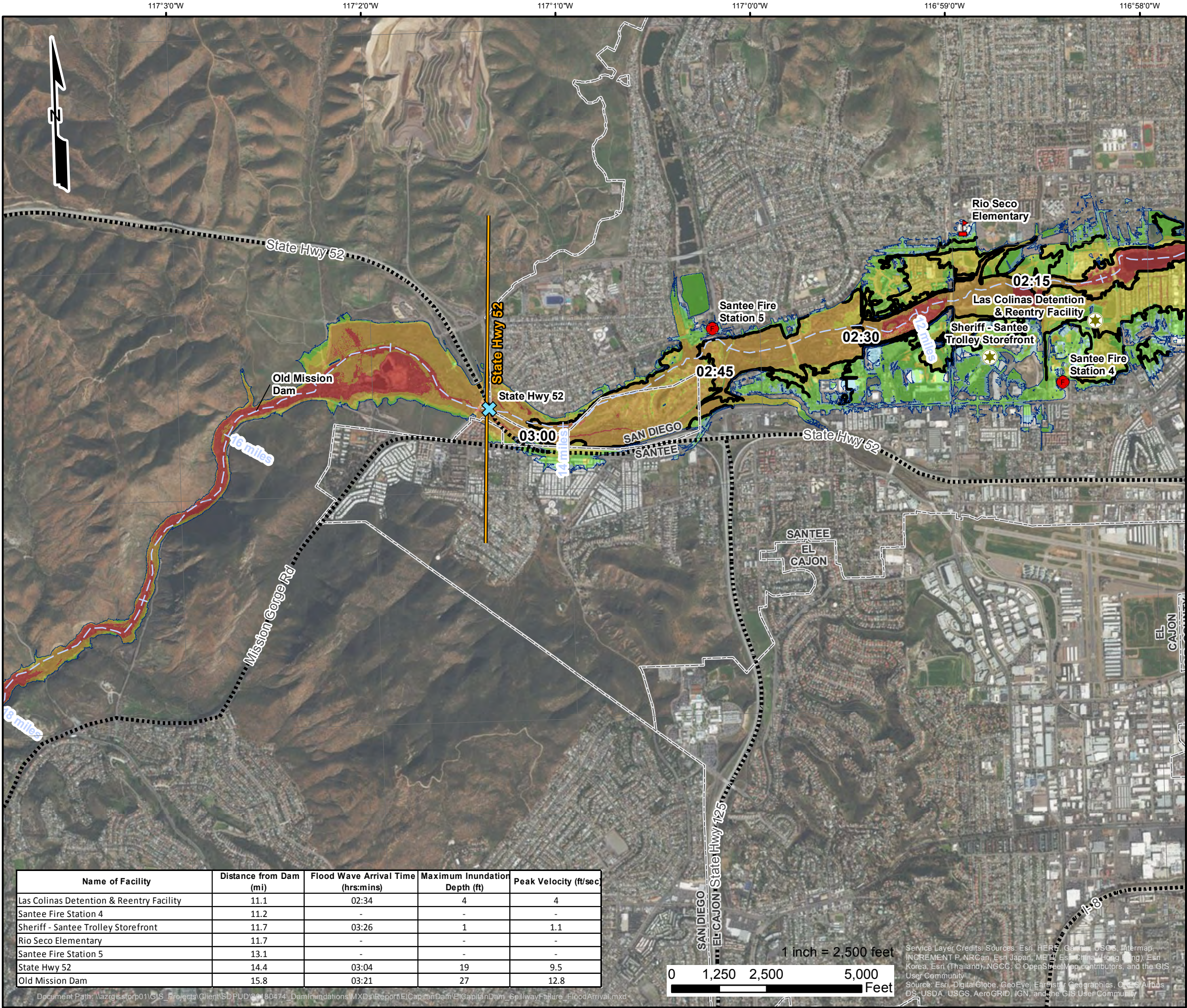
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1 inch = 2,500 feet

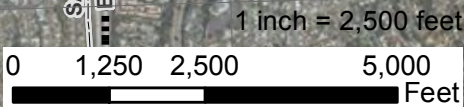
0 1,250 2,500 5,000 Feet





Name of Facility	Distance from Dam (mi)	Flood Wave Arrival Time (hrs:mins)	Maximum Inundation Depth (ft)	Peak Velocity (ft/sec)
Las Colinas Detention & Reentry Facility	11.1	02:34	4	4
Santee Fire Station 4	11.2	-	-	-
Sheriff - Santee Trolley Storefront	11.7	03:26	1	1.1
Rio Seco Elementary	11.7	-	-	-
Santee Fire Station 5	13.1	-	-	-
State Hwy 52	14.4	03:04	19	9.5
Old Mission Dam	15.8	03:21	27	12.8

Document Path: \\azgis\storp01\GIS\_Projects\Client\SDPUD\20180474\_DamInundations\MXD\Report\ElCapitanDam\ElCapitanDam\_SpillwayFailure\_FloodArrival.mxd



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### El Capitan Dam

### Sunny Day Spillway Breach

### Flood Arrival Times

San Diego County, California

State Dam ID: 8.007

& National Dam ID: CA00111

Modeling Date: April-2018

Map Creation Date: September-2018

By: J. Weber

#### Legend

##### Critical Structures

- Critical Road Point
- CalFire Facility
- Licensed Healthcare Facility
- Law Enforcement Facility
- School

- Critical Road
- Approx. Time to 1 Foot Depth (hrs:mins)
- Cross Section
- Flow Path
- Approx. Maximum Flooding Extent
- Municipal Boundary

##### Maximum Inundation Depth (ft)

1 to 2
2 to 5
5 to 10
10 to 20
20+

\* Variations in color are dependent upon the background imagery.

Notes:

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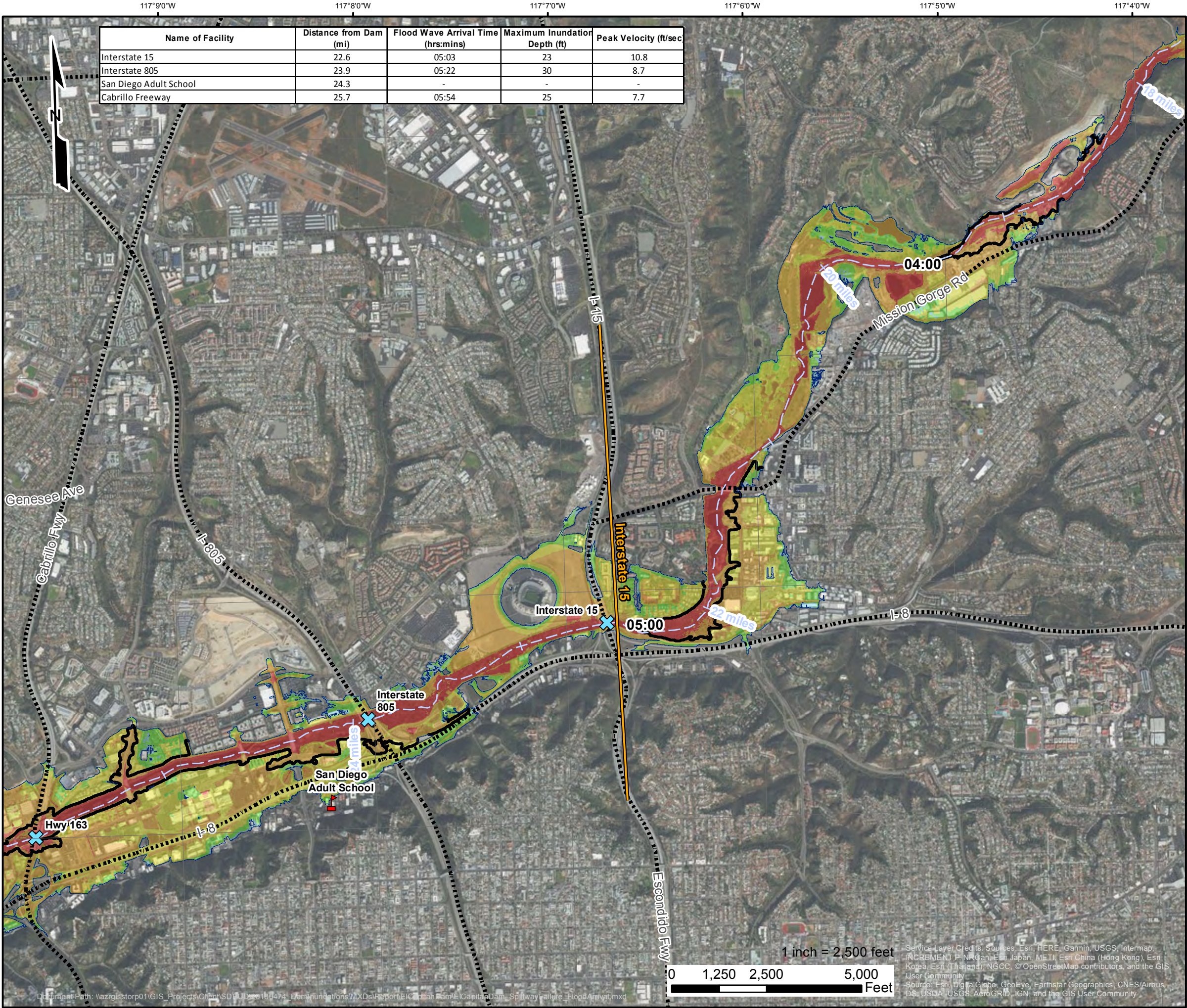
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(619) 831-4600

Engineer Elizabeth Bissonnette

License No. C68830





Modeling Date: April-2018  
Map Creation Date: September-2018  
By: J. Weber

**Legend**

**Critical Structures**

- Critical Road Point
- CalFire Facility
- Licensed Healthcare Facility
- Law Enforcement Facility
- School

Critical Road

Approx. Time to 1 Foot Depth (hrs:mins)

Cross Section

Flow Path

Approx. Maximum Flooding Extent

Municipal Boundary

**Maximum Inundation Depth (ft)**

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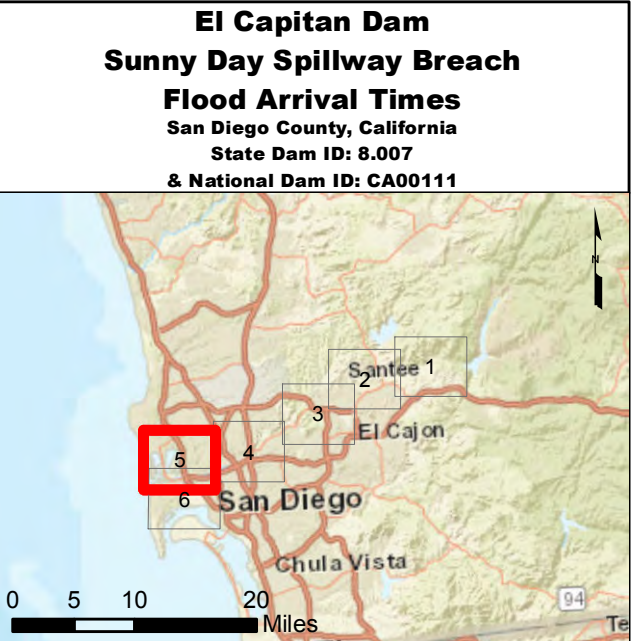
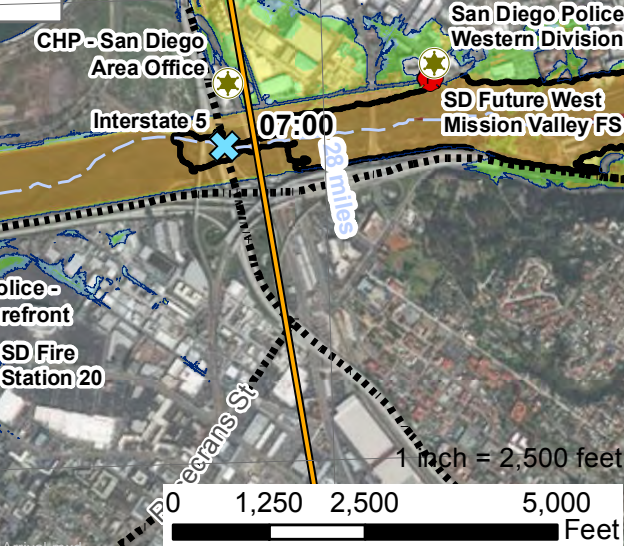
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Name of Facility	Distance from Dam (mi)	Flood Wave Arrival Time (hrs:mins)	Maximum Inundation Depth (ft)	Peak Velocity (ft/sec)
Cabrillo Freeway	25.7	05:54	25	7.7
San Diego Police - Western Division	27.7	-	-	-
SD Future West Mission Valley FS	27.8	-	-	-
Interstate 5	28.3	06:55	18	5.3
CHP - San Diego Area Office	28.3	-	-	-
SD Fire Station 20	29	-	-	-
San Diego Police - Peninsula Storefront	29	-	-	-

Mapped depths and arrival times downgradient of I-5 vary more significantly as a result of tidal influences, hydraulic factors, and specific model assumptions. Please refer to report text for additional information.



Modeling Date: April-2018  
Map Creation Date: September-2018  
By: J. Weber

**Legend**

**Critical Structures**

- Critical Road Point
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- School

..... Critical Road

— Approx. Time to 1 Foot Depth (hrs:mins)

— Cross Section

— Flow Path

— Approx. Maximum Flooding Extent

— Municipal Boundary

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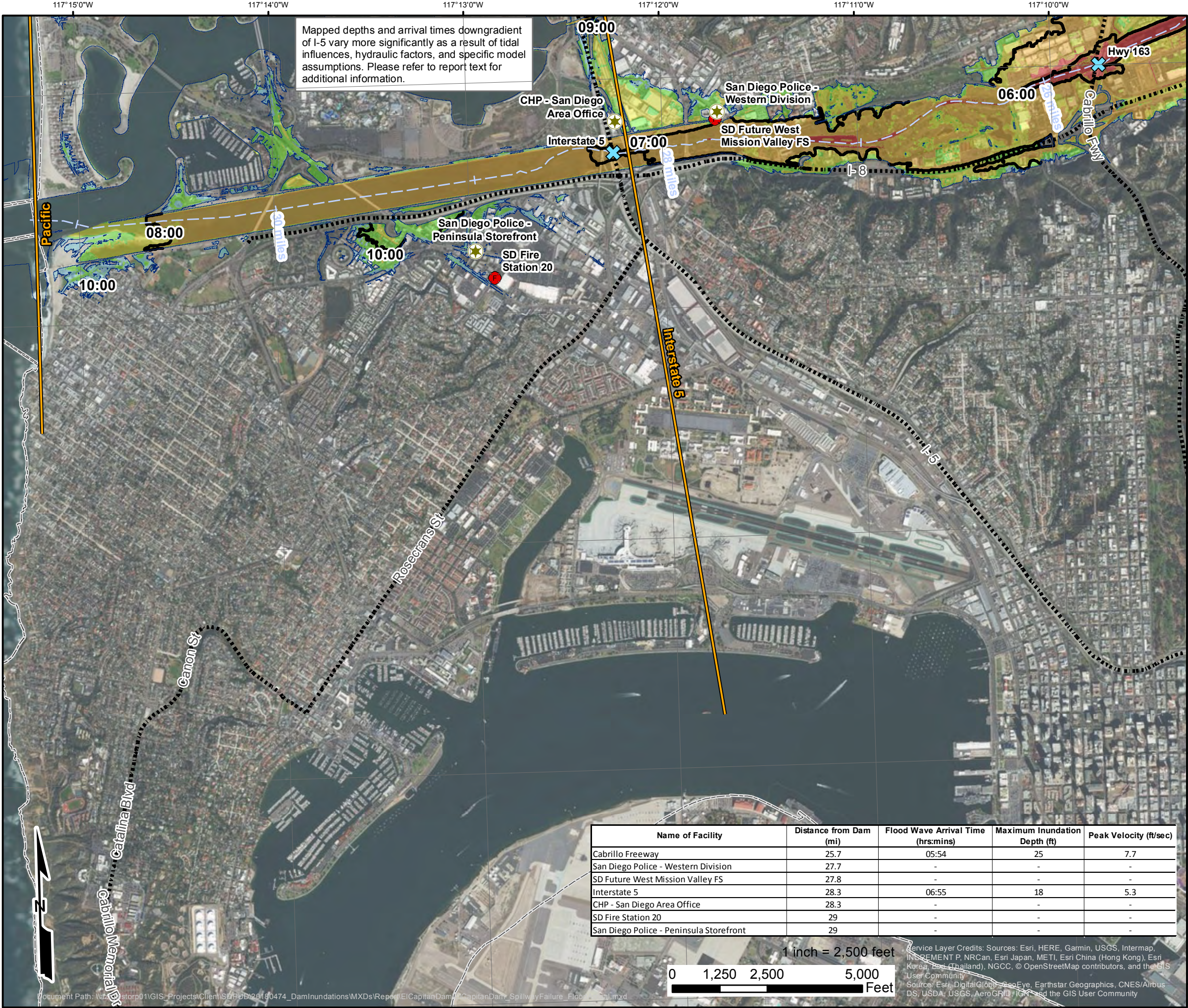
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### El Capitan Dam Sunny Day Spillway Breach Flood Arrival Times

San Diego County, California  
State Dam ID: 8.007  
& National Dam ID: CA00111

Modeling Date: April-2018  
Map Creation Date: September-2018  
By: J. Weber

#### Legend

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